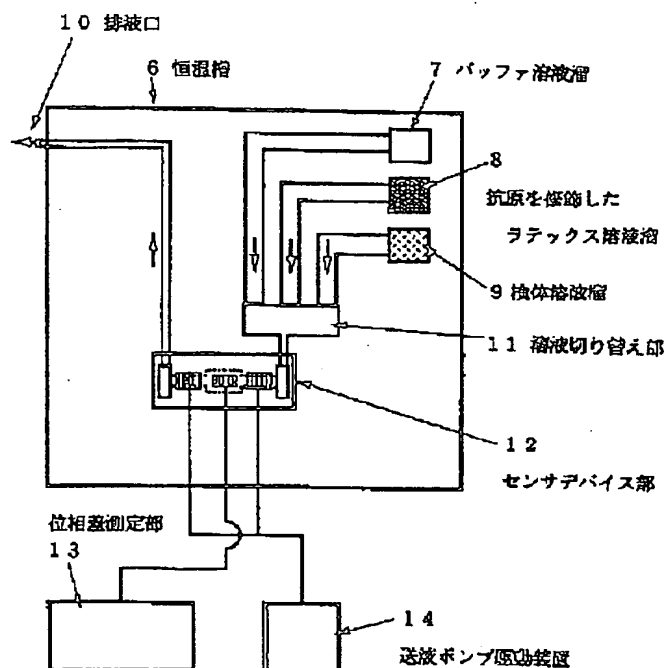


## Patent Abstracts of Japan

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APPLICANT : NEC CORP;  
INVENTOR : YOSHIKI MASAYUKI;  
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TITLE : IMMUNOLOGICAL SENSOR SYSTEM  
AND IMMUNOASSAY USING THE  
SAME



ABSTRACT : PURPOSE: To achieve an immunoassay which is compact, more handy and more accurate by sensing changes in mass caused by an antigen-antibody reaction only to suppress fluctuation of a phase difference attributed to a floating latex.

CONSTITUTION: Firstly, a buffer liquid alone is placed into a solution reaction part in a sensor device section 12 with a solution flow system having solution reservoirs 7-9 and a solution switching section 11 to measure a phase difference with an acoustic device for an immune sensor and then, a specimen liquid and a liquid containing a latex are fed to cause a competitive reaction. Subsequently, the buffer liquid is introduced to measure the phase difference. The solutions are transferred to a solution reaction part with a micropump using acoustic devices. In this manner, the amount of an antigen contained in the specimen is learned by measuring changes in the phase difference from the acoustic devices before and after an antigen-antibody reaction.

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